

AMENDMENT TO THE SPECIFICATION

Please replace the paragraph located from page 4, line 26, to page 5, line 15 of the specification, with the following, marked-up replacement paragraph:

FIG. 1 is a partial block diagram of an illustrative magnetic resonance imaging system in which embodiments of the present invention could be employed. In FIG. 1, subject 100 on support table 110 is placed in a homogeneous magnetic field generated by magnetic field generator 120. Magnetic field generator 120 typically comprises a cylindrical magnet adapted to receive subject 100. Magnetic field gradient generator 130 creates magnetic field gradients of predetermined strength in three mutually orthogonal directions at predetermined times. Magnetic field gradient generator 130 is illustratively comprised of a set of cylindrical coils concentrically positioned within magnetic field generator 120. A region of subject 100 into which a device 150, shown as a catheter, is inserted, is located in the approximate center of the bore of magnetic field generator 120. Illustratively, device 150 could be a guidewire or some other intraluminal device.

Please replace the paragraph located on page 6, from line 9 through line 13 of the specification, with the following, marked-up replacement paragraph:

Device 150 is inserted into subject 100 by an operator. Illustratively, device 150 may alternatively be a guidewire, a catheter, an ~~ablation~~ ablation device or a similar recanalization device, or some other intraluminal device.